

TK-HAO081

Eight-Point Coated HART Analog Output Module

Honeywell TK-HAO081 is an eight-point conformally coated HART analog-output module. It delivers analog control commands and HART communication to compatible final elements.

PRODUCT SNAPSHOT

BRAND

Honeywell

FAMILY

Experion compact I/O

PART

TK-HAO081

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PRODUCT OVERVIEW

Honeywell TK-HAO081 is an eight-point conformally coated HART analog-output module. It delivers analog control commands and HART communication to compatible final elements.

- 1

Generates eight analog control outputs
- 2

Carries HART communication to compatible final elements
- 3

Fits the compact I/O module arrangement
- 4

Provides a coated assembly for industrial environments

SYSTEM COMPONENTS

Compatible compact I/O carrier

HART output termination assembly

Loop power and field wiring

HART-capable final elements

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
MC-TDOR62	TPS relay-output field termination assembly	Open product page
MC-TPIX12	TPS pulse-input field termination assembly	Open product page
MC-TSIM12	TPS serial-interface field termination assembly	Open product page
MC-TAOY25	TPS analog-output field termination assembly	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Output points	8
Output function	HART analog output

PARAMETER	VALUE
Coating	Conformal

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Compatible compact I/O carrier
Companion hardware	HART output termination assembly
Field connection	Loop power and field wiring
Primary system function	Generates eight analog control outputs
Controlled acceptance duty	Smart control-valve positioning

TECHNICAL NOTE

Secure the process in manual, confirm output-loop polarity and HART-capable termination, then stroke each channel under a limited command while reviewing device communication.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Smart control-valve positioning

Generates eight analog control outputs

HART drive-reference loops

Carries HART communication to compatible final elements

Intelligent damper control

Fits the compact I/O module arrangement

Final-element diagnostics

Provides a coated assembly for industrial environments

PRODUCT PRECAUTIONS

- 1 Verify the complete TK-HAO081 marking and its assigned Experion compact I/O position before work.
- 2 Isolate the energy associated with Compatible compact I/O carrier before disconnecting TK-HAO081.
- 3 Protect the TK-HAO081 connectors and electronic assembly using approved ESD controls.
- 4 Record the as-found HART output termination assembly connections and configured assignment before replacement.
- 5 Confirm Loop power and field wiring matches the approved installation record for TK-HAO081.
- 6 Restore TK-HAO081 under controlled conditions and review its model-specific diagnostics.
- 7 Complete a documented functional test for smart control-valve positioning before release.

ENGINEER FAQ

Q1 What evidence should be retained after TK-HAO081 returns to service?

Retain the full model identity, as-left connections, configuration, diagnostic result and the final controlled test record for smart control-valve positioning.

Q2 How is TK-HAO081 identified before installation in a Experion compact I/O cabinet?

Match the full TK-HAO081 marking and part number TK-HAO081 to the assigned position and installed Compatible compact I/O carrier.

Q3 Which companion hardware must be checked when replacing TK-HAO081?

Verify Compatible compact I/O carrier, HART output termination assembly and Loop power and field wiring against the approved cabinet and project record before fitting the Eight-Point Coated HART Analog Output Module.

Q4 What wiring information should be recorded before removing TK-HAO081?

Record terminal identifiers, polarity or phase, shields, cable tags and the as-found channel or port assignment for TK-HAO081.

Q5 How should engineers validate TK-HAO081 after configuration?

Restore the documented Experion compact I/O assignment, review diagnostics and run a controlled test of its role: generates eight analog control outputs.

Q6 Can TK-HAO081 be moved to a different slot or duty without review?

No. Confirm keying, companion hardware and the approved configuration before assigning TK-HAO081 to another position or function.

Q7 Which technical value is especially important during TK-HAO081 commissioning?

Verify Output points is 8 and use the named manufacturer procedure for the controlled functional test.

Q8 What should be checked if TK-HAO081 does not support hart drive-reference loops after installation?

Check seating, HART output termination assembly, Loop power and field wiring, field energy and the model-specific diagnostics before replacing additional hardware.